User manual

Version 1.0

STRYME

Copyright and Disclaimer

Copyright © 2011 STRYME GmbH. All rights reserved.

Your rights to the software are governed by the accompanying software license agreement. The owner or authorized user of a valid copy of GENESIX software may reproduce this publication for the purpose of learning to use such software. No part of this publication may be reproduced or transmitted for commercial purposes, such as selling copies of this publication or for providing paid for support services.

Information in this document is subject to change without notice and does not represent commitment on the part of STRYME GmbH.

Note: Because STRYME frequently releases new versions and updates to its system software, applications, and Internet sites, images shown in this manual may be slightly different from what you see on your screen.

Trademarks

The STRYME logo is a trademark of STRYME GmbH, registered in the European Union and other countries. Every effort has been made to ensure that the information in this manual is accurate. STRYME is not responsible for printing or clerical errors.

STRYME GmbH
Dovskygasse 5/2
1130 Vienna
Austria

tel +43 1 968 11 62
fax +43 1 968 11 62 ï 99
email office@stryme.com
web www.stryme.com

CONTENTS

1 GENERAL 6

1.1 User Interface 6

1.1.1 Video information 6

1.1.2 Audio information 7

1.1.3 Timer 7

1.1.4 Video Settings 8

1.2 Additional functions 10

2 PLAYER 11

2.1 Overview 11

2.1.1 Status bar 12

2.1.2 Output Controls 12

2.1.3 Player Main Controls 13

2.1.4 Navigation bar 13

2.2 Video playback 14

2.2.1 Content from GENESIX Library 14

2.2.2 Content from Windows Explorer 14

2.2.3 Using the Playerôs ñOpen fileò dialog 14

2.3 Multichannel playback 14

2.4 Aspect Ratio Conversion 15

2.5 Channel linking 16

2.6 Scaling 16

3 RECORDER 17

3.1 Overview 17

3.2 VTR-Controls on/off 18

3.3 Record Video 18

3.3.1 Crash recording 18

3.3.2 Batch capturing 18
3.4 Multichannel Ingest 18
4 LIBRARY 19
4.1 Overview 19
4.2 Understanding Library 19
4.3 Browse content 20
4.3.1 Thumbnail view 20
4.3.2 List view 21
4.4 Import files to library 22
4.5 Edit Metadata 23
4.6 Playlist & Program editor 24
4.7 Favorites folder 24
4.8 Filter & Search 25
4.9 Logfiles 25
5 PLAYOUT 26
5.1 Overview 26
5.2 Playout toolbar 27
5.3 Create a playlist 27
5.3.1 Add video content 27
5.3.2 Add live content 27
5.3.3 Add placeholder 27
5.3.4 Set clip actions 28
5.3.5 Set GPI events 28
5.4 Instant mode 29
5.5 Multichannel Playout 30
6 ONAIR 31
6.1 Overview 31
6.2 Understanding programs 32
6.3 Create/Open/Edit/Save a program 32
6.4 Main controls 33

7 SETTINGS 34

7.1 General 34

7.2 Aspect Ratio Conversion 35

7.3 GPI 36

7.4 TCP 37

7.5 VTR 38

7.6 Keyboard Shortcuts 39

7.7 Library 40

7.8 Global 41

1 GENERAL

GENESIX is the perfect workflow solution for professional broadcasting. GENESIX stands out with impressive stability, flexibility and performance: in its modular make-up from Ingest right up to Playout, and in its sophisticated and uniform user interface.

With functions reduced to the bare essentials the design satisfies even the most demanding users. In practice, recurring tasks are carried out simply and efficiently.

With just the right amount of ñbrawn and brainsñ GENESIX adds muscle to daily broadcasting.

Unique effect
Broadcasting - made easier, more efficient and cheaper!

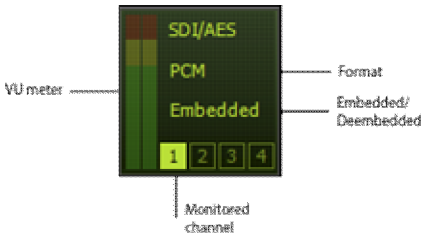
1.1 User Interface

1.1.1 Video information

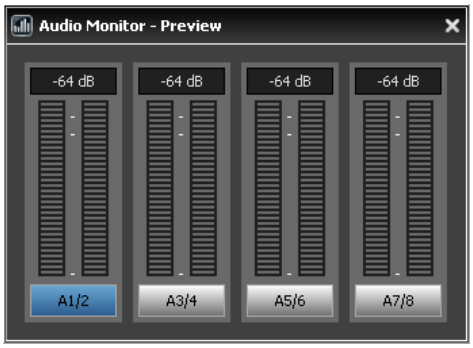
The video information provides an overview of the video-properties of the video clip.

1.1.2 Audio information

The audio information provides an overview of the audio-properties and allows you to monitor the audio levels directly in the Player window. It also shows the count of audio stereo tracks.



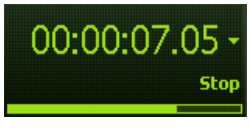
1.1.2.1 External audio monitor



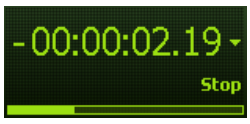
Click the AUDIO-MONITOR button to show/hide the separate audio monitor window that allows you to monitor up to 8 channels.

1.1.3 Timer

The timer displays the current position of the clip. It provides count-up as well as count-down mode.



Count-Up mode
Hours : Minutes : Seconds . Frames



Count-Down mode
The progress bar also turns into count-down mode.

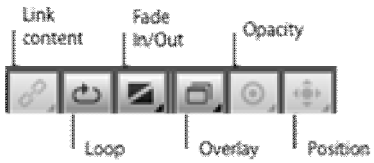
1.1.3.1 Separate Timer window

Click the TIMER button to show/hide the separate timer window.

1.1.3.2 Jump to exact position

Click the timecode to enter an exact position. Confirmed by <Enter/Return> the Player jumps to the entered position immediately. Use <Tab> to navigate within the timecode.

1.1.4 Video Settings



1.1.4.1 Link content

GENESIX Player allows you to link one video file with another one. Before activating or loading the linked content you have to set up a secondary output-channel as described in chapter 2.1.5.2

1.1.4.2 Loop

Use the LOOP button to turn on/off the loop playback mode.

1.1.4.3 Fade In/Out

Use the FADE IN/OUT button to activate the fade in/out function.

Set Fade In/Out

Right-click on the Fade In/Out button opens the configuration menu. Use the markers to set time or frame-based fade in/out transitions.

1.1.4.4 **Overlay graphics**

Use the OVERLAY button to activate/deactivate overlay graphics.

Open overlay graphics

Right-Click on the OVERLAY button and select ñLoad overlayòto open an overlay file or drag & drop an overlay file directly from GENESIX Library.

NOTE GENESIX supports TGA files as overlay graphics.

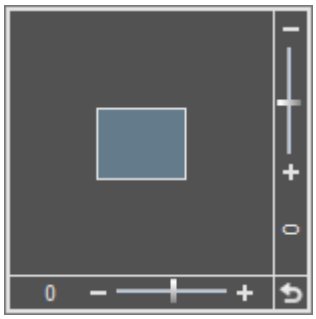
1.1.4.5 **Opacity**

Use the OPACITY button to activate/deactivate opacity for overlay graphics.

Right click on the OPACITY button enables configuration.

1.1.4.6 **Position**

Right click on the POSITION button enables to position the overlay graphics.



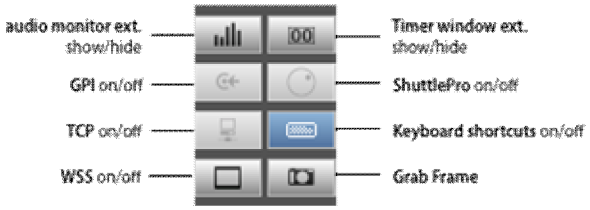
1.1.4.7 **Set Mark In/Out**

Set Mark

Click on the arrow beside the Mark In/Out time display and select ñSet mark...òto set the current position as Mark In or Out.

Direct input
Click on the Mark In/Out time and enter the timecode directly.

1.2 Additional functions



1.2.1.1

GPI control on/off
Use the GPI button to enable/disable GPI controls.

1.2.1.2

ShuttlePro on/off
Use the SHUTTLEPRO button to enable/disable ShuttlePro controls.

1.2.1.3

TCP on/off
Use the TCP button to enable/disable TCP controls.

1.2.1.4

Keyboard shortcuts on/off
Use the Keyboard button to enable/disable keyboard shortcuts.

1.2.1.5

Wide screen signalling (WSS) on/off
Use the WSS button to enable/disable wide screen signalling.

1.2.1.6

Frame Grabbing
For saving the current frame as a file or copy it to the clipboard click on the GRAB FRAME button. You also can use the selected frame as preview picture in Library.

2 PLAYER

2.1 Overview

The GENESIX PLAYER is an easy to use, professional application to view video footage on a computer screen or on a video monitor. Besides an efficient operation with Jog, Shuttle or Super Slow Motion and an individually configured work space, all relevant information is shown on a uniform display.

Recurring tasks, such including in/out markers, adding graphic overlays, trimming video clips, and linking channels, are carried out with the simple click of a mouse button directly in the PLAYER.

On top of that, the PLAYER provides simultaneous up-/down- and aspect ratio conversions with optional WSS signaling. The PLAYER supports control via ShuttlePro, GPI and TCP, and can be started in multiple instances (subject to the number of video outputs).

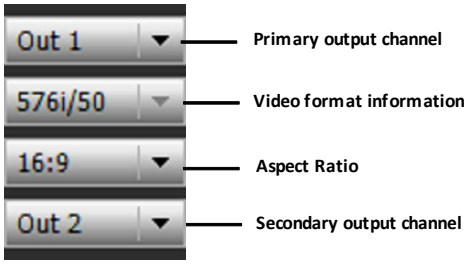
Player (Out 1) - airrace show short
Video preview: Gives you a preview of your video content on the computer monitor.
Navigation bar: Navigate in Jog or Shuttle mode
Output controls: Choose your video output channel, aspect ratio conversion, link-channel and scaling properties.
Player functions: Allows you to show/hide a serperate timer and/or audio-monitor window, enable GPI ShuttlePro, TCP and keyboard controls, activate WSS signaling and grab single frames as a picture.
Status bar: Displays information about linked channels, linked content, overlay graphics and dropped frames.
Video information: Displays the video properties of the current file.
Video settings: Allows you to activate and set up playback options.
Audio information: Displays the audio properties of the current file. The floating meters let you monitor audio levels.
airrace show short
00:00:01.19
Play
No linked channel
No linked content
No overlay
0 dropped frame(s)

2.1.1 Status bar

The status bar displays the following information:

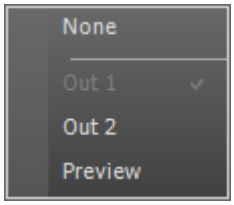
2nd channel info:	Displays linked channel and up- or downscaling settings.
Linked content:	Displays the title of the linked content.
Overlay:	Displays the title of the graphic overlay.
Dropped frames:	Displays the number of dropped frames.

2.1.2 Output Controls



2.1.2.1 Select the primary output-channel

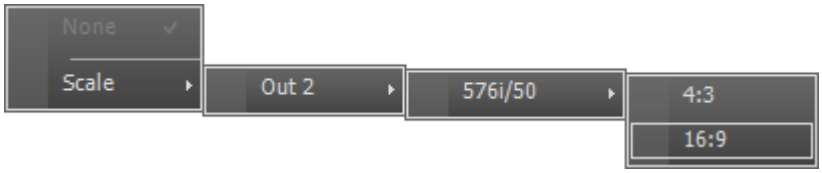
Depending on your video card and GENESIX license you can select a number of output channels. Set ÄPreviewñfor output on computer screen only.



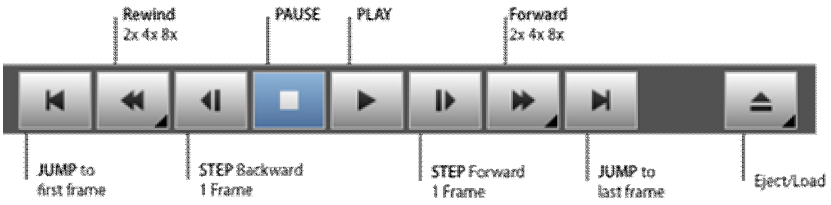
NOTE By selecting the video channel the video card initializes the channel with settings from GENESIX configuration menu. Depending on the video card this takes 1-3 seconds. If a channel is selected it cannot be used by other modules.

2.1.2.2 Select the secondary output-channel (optional)

Depending on your video card and GENESIX license you can use a second output channel for simultaneous up/down conversion or playback of linked content.



2.1.3 Player Main Controls



NOTE: Each function can be configured as keyboard and/or ShuttlePro shortcut and/or GPI command.

2.1.4 Navigation bar

The navigation bar offers Jog (J) and Shuttle (S) mode.

Jog-mode

In Jog-mode the marker represents the current playback position.

Shuttle- mode

In Shuttle-mode the marker represents the current playback speed and direction.

2.2 Video playback

NOTE Before using the Player itôs it required to select an output channel. When changing between PAL and HD the videocard automatically re-initialises the output channel which takes 1-3 seconds, depending on your video card.

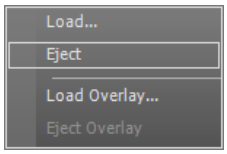
2.2.1 Content from GENESIX Library

Drag the video clip directly from the Library window and drop it in the Player window.

2.2.2 Content from Windows Explorer

Drag the video file directly from the Windows Explorer and drop it in the Player window.

2.2.3 Using the Playerôs ñOpen fileò dialog



1. Right-click the EJECT button.
2. Click ñLoadé ò
3. Select your video-file.

2.3 Multichannel playback

Depending on the number of outputs you can start up to 4 instances of the player module in order to playback 4 channels simultaneously.

NOTE If you activate the ñshareò option in Settings ï GPI menu as well as in the player you can control all instances simultaneously (ex. start/stop playback) with a single GPI command:

Player (Out 1) - ECO
Player (Out 2) - Bingo
Mit einer Barke kann man ...?
Player (Out 3) - Ocean 01
Player (Out 4) - Weltjournal
Reise durch den Krisen-Sommer
00:01:04.02
00:00:19.20

2.4 Aspect Ratio Conversion

As described in chapter 2.1.2 it is possible to do a live conversion from 4:3 to 16:9 or 16:9 to 4:3. Just select the correct aspect ratio from the dropdown menu for the output destination and GENESIX does the conversion depending on the aspect ratio of the clip.
There are two different ways to do the conversion ï cropping or boxing. This setting can be changed as described in chapter 7.2. The following picture will show how the conversion is done.

The next picture shows the conversion from a 4:3 clip to a 16:9 output:

The next picture shows the conversion from a 16:9 clip to a 4:3 output:

2.5 Channel linking

With GENESIX it is possible to play out two clips synchronic on two channels. To setup the second playout channel please see chapter 2.1.2.2.
After the second channel was initialized another clip can be loaded by Drag & Drop. If the first clip starts to play the other clip at the other channel starts to play exact at the same time.

This feature is very helpful if there are two clips, one with the fill content and the other with the key content. These clips have to start exactly at the same frame.

2.6 Scaling

With GENESIX it is possible to do an up- or downscaling from SD to HD or HD to SD on the fly. This is done by selecting the secondary channel described in chapter 2.1.2.2.

The scaling can be performed from 576i50 to the resolution 720p50 and 1080i50, from 720p50 to 576i50 and 1080i50 or from 1080i50 to 576i50 and 720p50.
It is also possible to do an aspect ratio conversion while doing a scaling.

This feature is very helpful if you playout a HD Playlist and it is also necessary to have the same Playlist in SD format. So there is no need to have a separate Playlist with separate files ï just select the downscaling and GENESIX does the work for you.

3 RECORDER

3.1 Overview

The GENESIX RECORDER provides an efficient way of recording video footage by means of batch capturing or crash recording. Its integrated VTR controls make it easy to use, and ensure frame accurate and efficient digitalization of video footage.

Just like in the Player module, the time code and VU meter with up to eight channels can be displayed in separate windows.

In addition, the RECORDER supports control via ShuttlePro and GPI and offers users an optional selection of pre-defined profiles for global broadcast video standards (e.g. RDD9, XDCAM HD, P2 HD, HDV, D10, DVCAM, etc.).

3.2 VTR-Controls on/off

GENESIX Recorder supports VTR control over 422 serial cable. Use the VTR CONTROL button to enable/disable VTR control from Recorder.

3.3 Record Video

3.3.1 Crash recording

Click the RECORD button to start recording.

3.3.2 Batch capturing

Enter the start and end time in the In/Out marker fields and then click the RECORD button.

NOTE Before using the Recorder itõs it required to select an input channel.

3.4 Multichannel Ingest

Depending on the number of inputs and GENESIX license you can start up to 4 instances of the recorder module in order to record 4 channels simultaneously.

NOTE If you activate the ñshareò option in Settings ï GPI menu as well as in the recorder you can control all instances simultaneously (ex. Start/stop recording) with a single GPI command:

4 LIBRARY

4.1 Overview

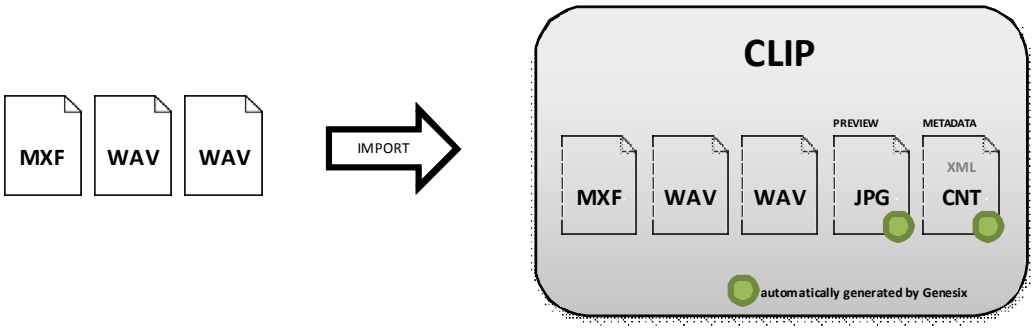
With GENESIX LIBRARY video footage, audio and graphics material are easily managed on an XML basis. GENESIX LIBRARY also allows you to manage the playlists of the Playout module.

Besides traditional content management and editing freely defined metadata, playlists can be managed, generated or edited via an integrated playlist editor and without direct access to the Playout module.

With automatically generated thumbnail previews, different display options, as well as filter and search functions, content can be located quickly. With the click of a mouse button the favorites folder ensures the system-wide availability of frequently used content.

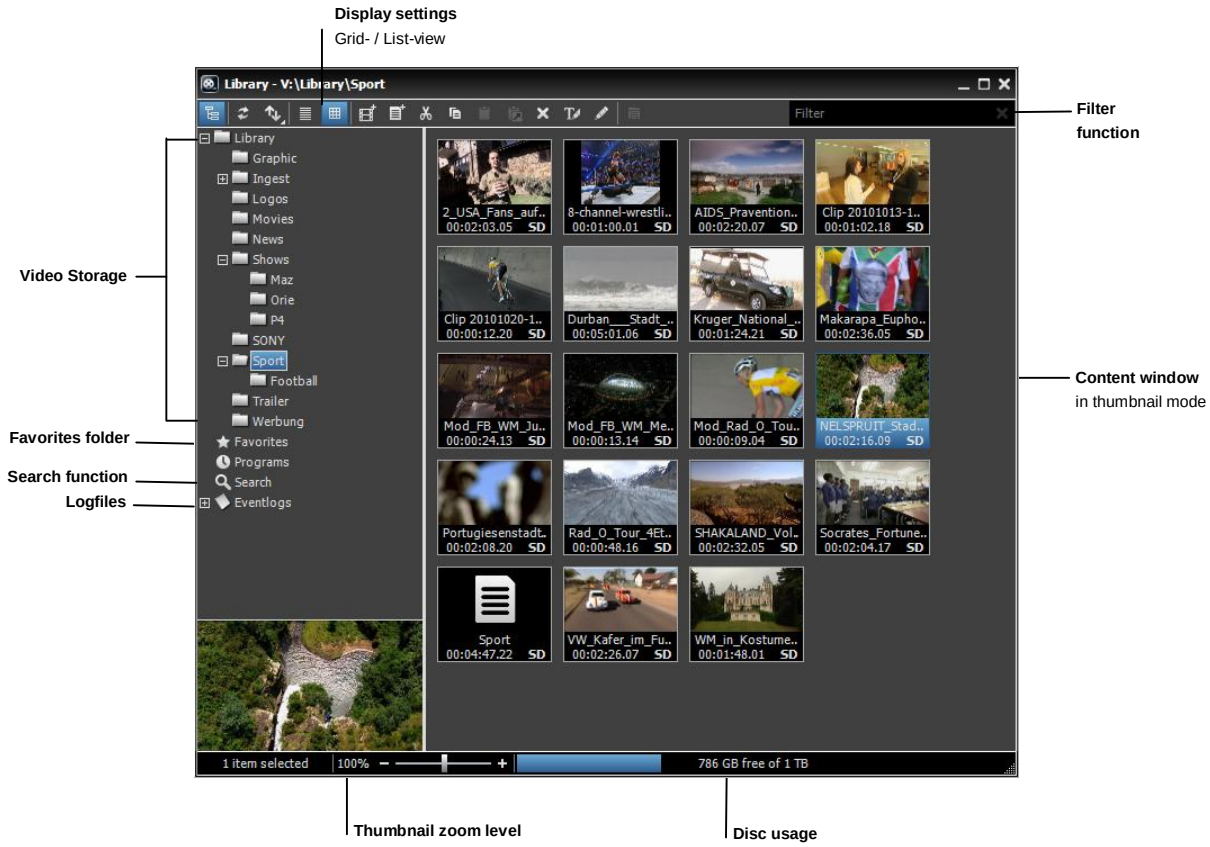
4.2 Understanding Library

GENESIX Library represents a specified folder or harddisk on your computer or network. Library automatically creates thumbnail previews (JPG) and XML files (CNT) containing video and audio information as well as individual metadata for each video clip. In order to keep the interface clean, Library shows all these related files as one clip.

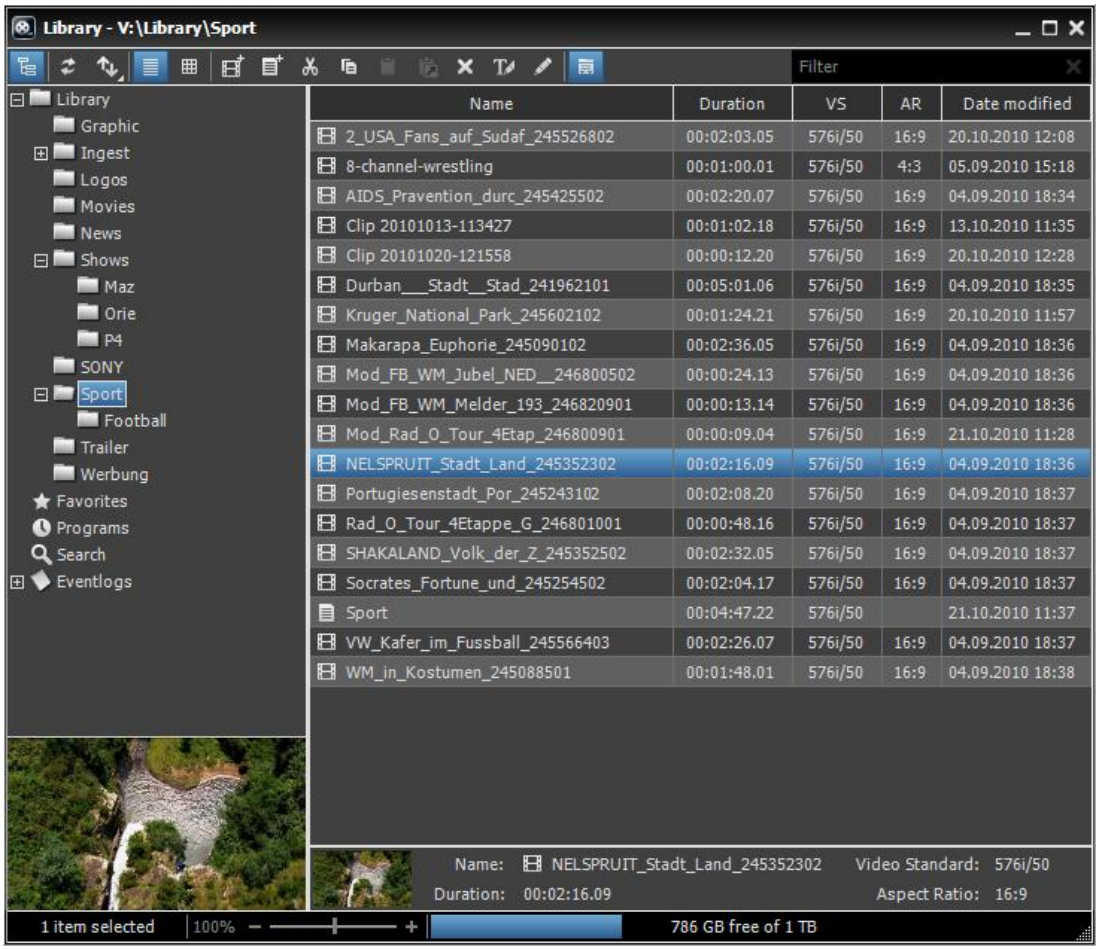


4.3 Browse content

4.3.1 Thumbnail view

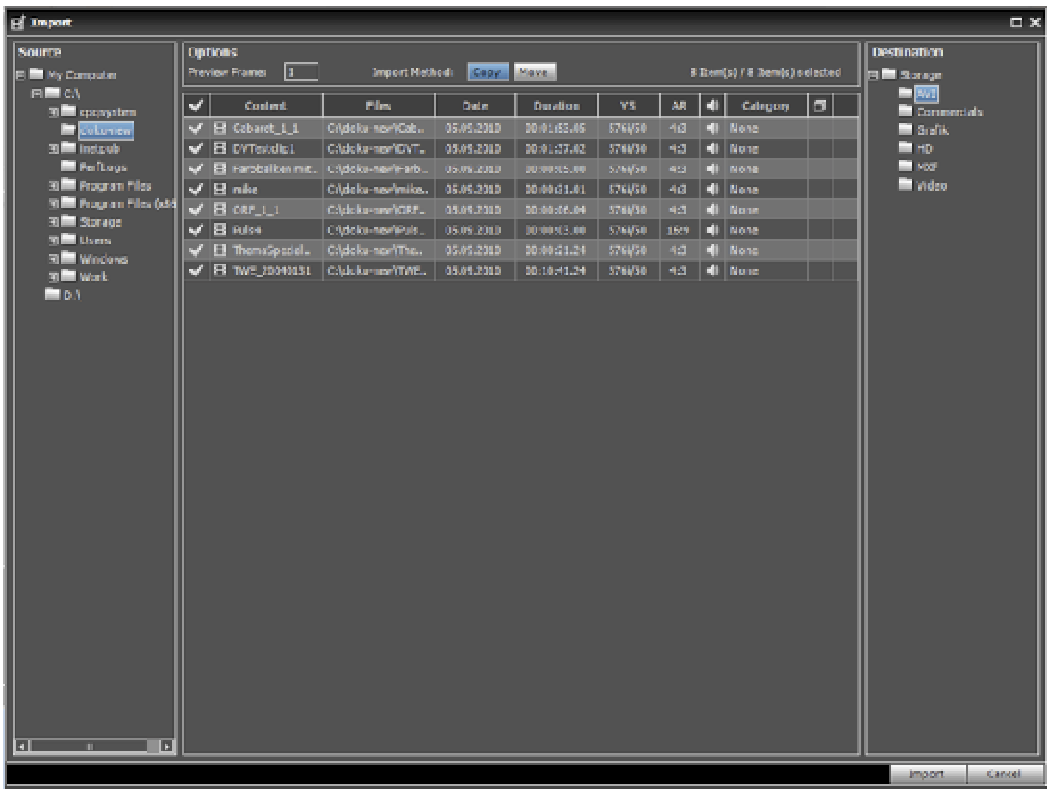


4.3.2 List view



4.4 Import files to library

a. Click the IMPORT button to open the import window.



b. Enter the frame number which should be used for preview thumbnails.

c. Select file handling method for import. (copy or move)

d. Select source drive or folder where the clips you want to import are located

e. Select/Deselect clips you want to import

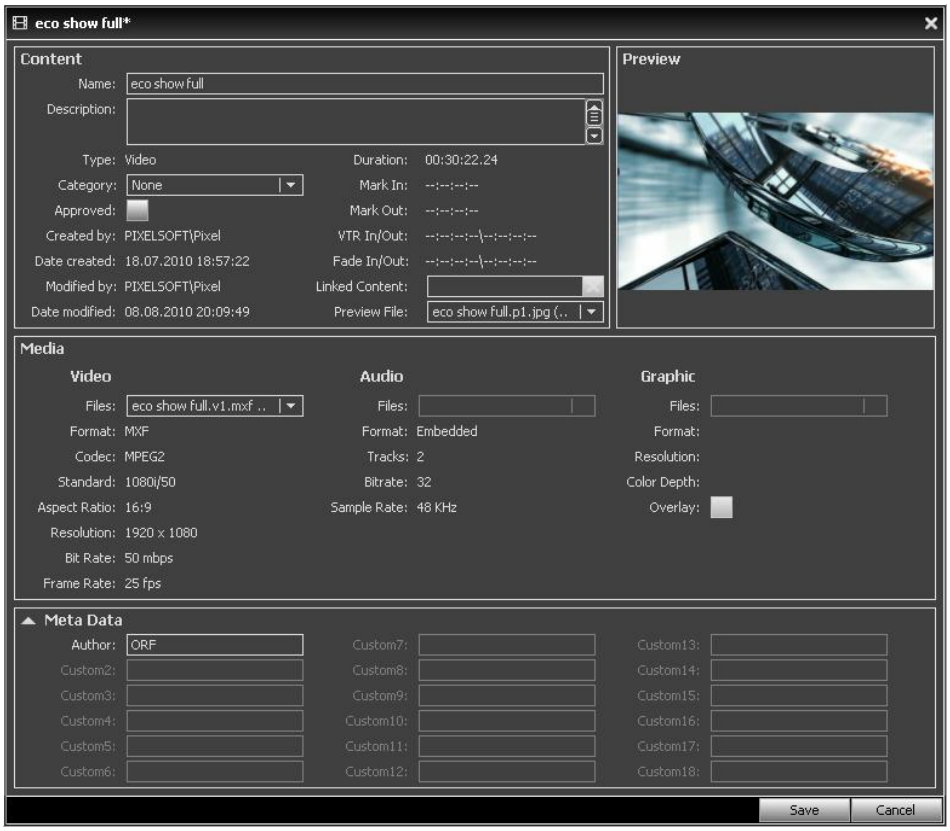
    a. Optional select category

f. Select destination folder in library

g. Click the ñImportò button.

4.5 Edit Metadata

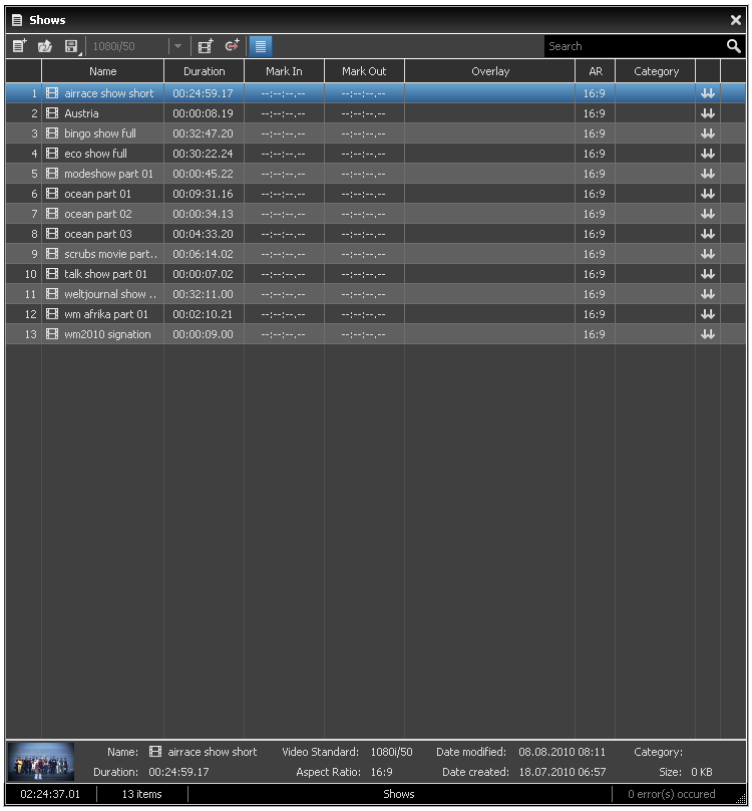
Double click on a clip to open the properties window.



You can set custom metadata fields in the *global tab* in the *settings menu*.

4.6 Playlist & Program editor

With Library you can create, edit and manage playlists and programs even if you don't have installed the PLAYOUT or ONAIR module on your computer. The built-in playlist editor offers full functionality. (for further information about playlist editing, see chapter 5 and 6)



4.7 Favorites folder

Drag & Drop overlay graphics into the favourites folder in order to create a shortcut to the original source. You can access this folder through right click on the overlay-button.

4.8 Filter & Search

GENESIX LIBRARY offers two methods for searching content.

Filter
The filter function on the top-right corner of the LIBRARY window filters the current folder for the entered code.

Search
By clicking on the ñSearchò folder the datafield from the filter-function turns into a search field. Using search, GENESIX LIBRARY search through all directories and delivers the output into the search folder.

4.9 Logfiles

Within the Logfiles folder you can access all Logfiles created by GENESIX.

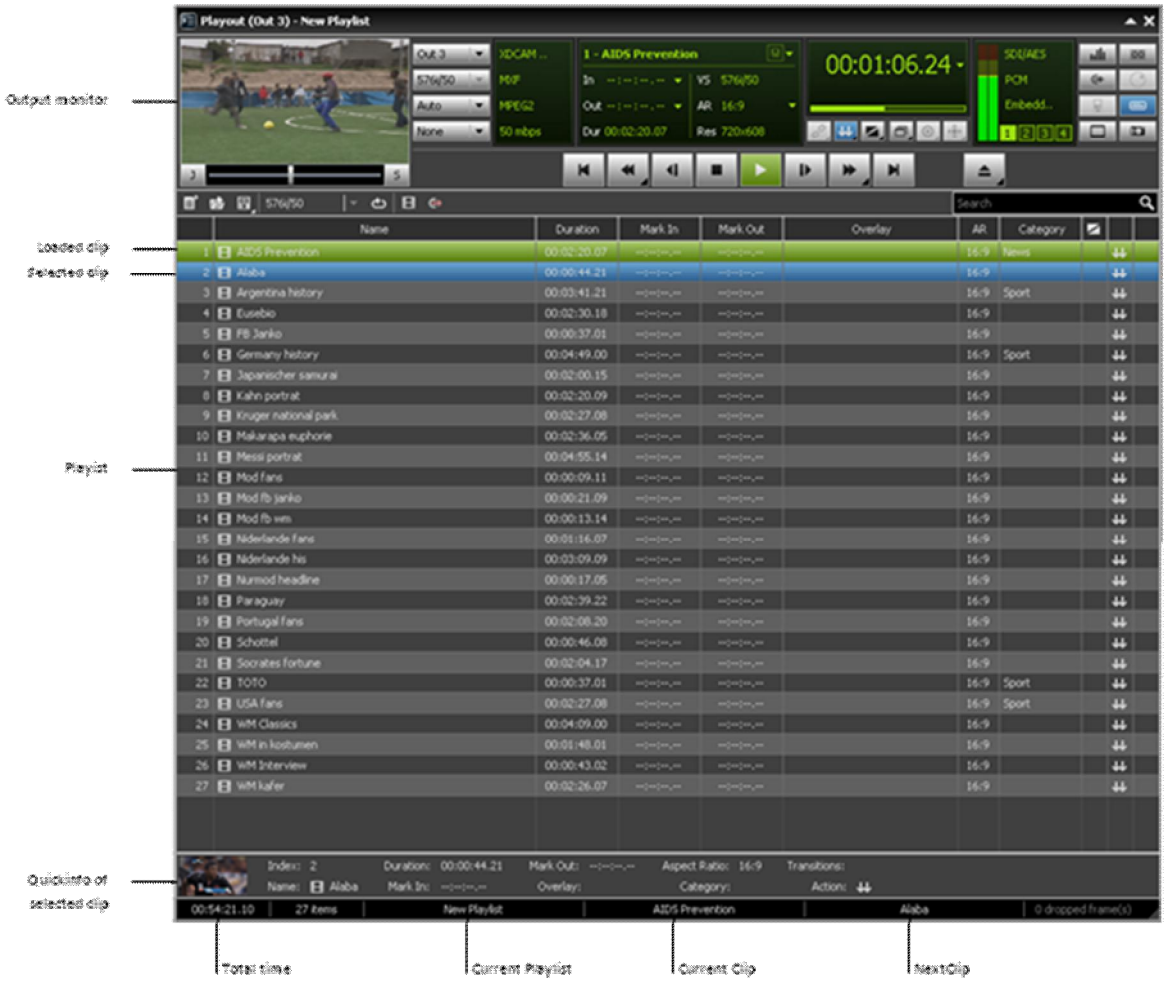
5 PLAYOUT

5.1 Overview

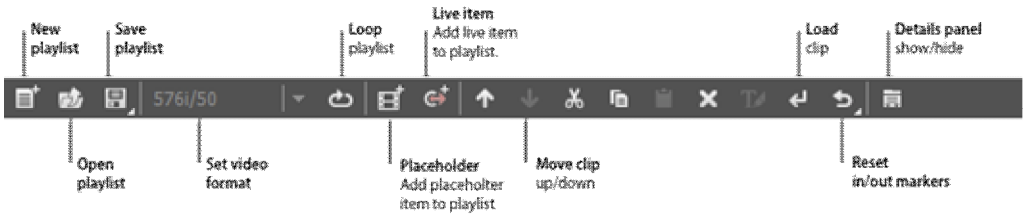
GENESIX PLAYOUT is a professional and sturdy playout application. In a stand-alone operation it can easily be integrated into or controlled by existing systems.

The support of a variety of video formats, aspect ratios, live inputs and graphics within the playlist, as well as a simultaneous up- or down-conversion on a second channel provide maximum flexibility.

In addition, GENESIX PLAYOUT offers the instant mode that was especially designed for live broadcasts. It plays video clips instantly upon mouse click or GPI command. Presenters will welcome an optimized touch screen.



5.2 Playout toolbar



5.3 Create a playlist

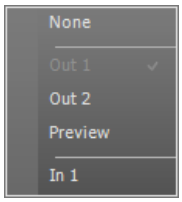
Every time you open the PLAYOUT module you start with an empty playlist. If you've already loaded a playlist click on the "New playlist" button in order to create a new one.

5.3.1 Add video content

Drag & drop the video clips from Library directly into the playlist.

5.3.2 Add live content

5.3.2.1 Select input channel



Select the input channel in the same dropdown menu as output channel.

5.3.2.2 Add live item

Click on the "Live item" button to add a placeholder for an input channel. You can set duration time for the live item or set the action to "Loop" for live input unless you click the "Next" button.

NOTE It is required to select an input channel as shown in 5.3.2.1.

5.3.3 Add placeholder

Click on "Add placeholder" button to add a placeholder. You can edit the duration of the placeholder by click on the duration time.

5.3.4 Set clip actions

With actions you can set the playback behaviour of PLAYOUT. You can set actions for the whole playlist or individually for each clip.

Next (default)
Play next clip after clip is finished.

Loop
The ĂLoopñaction loops the clip until manual input.

Stop
Playout stops after playing the clip.

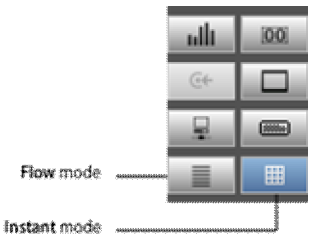
5.3.5 Set GPI events

You can set GPI events for each clip.

NOTE Before using GPI events you have enable GPI in settings as described in chapter 7.

5.4 Instant mode

Switch from Flowï mode (default) to Instant-mode



The instant mode plays clips on a single click - instantly - without delay.

Add clips in Flow-mode and then switch to instant mode.

Instant mode view

5.5 Multichannel Playout

Depending on the number of outputs you can start up to 4 instances of the playout module in order to playback 4 channels simultaneously.

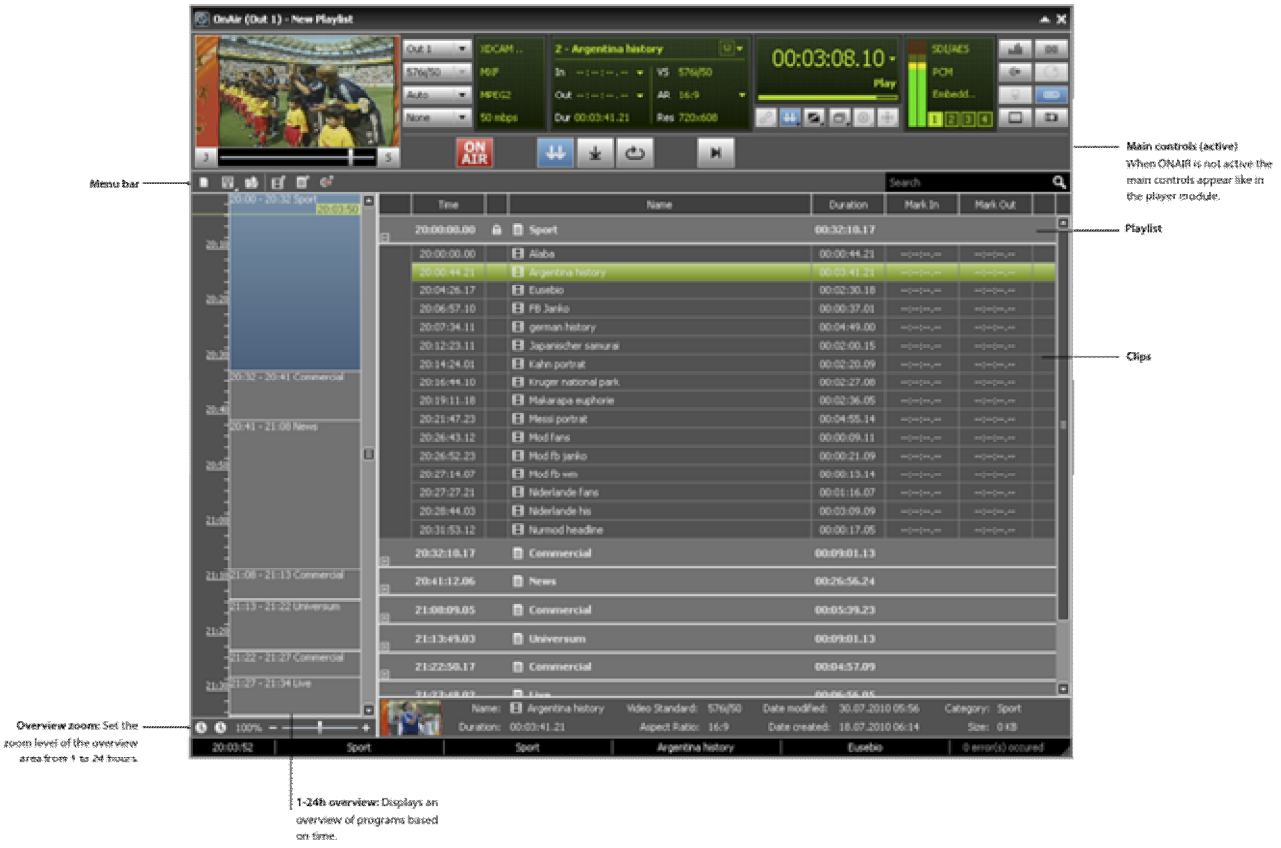
NOTE If you activate the ñshareò option in Settings ï GPI menu as well as in the playout module you can control all instances simultaneously (ex. start/stop playback) with a single GPI command:

6 ONAIR

6.1 Overview

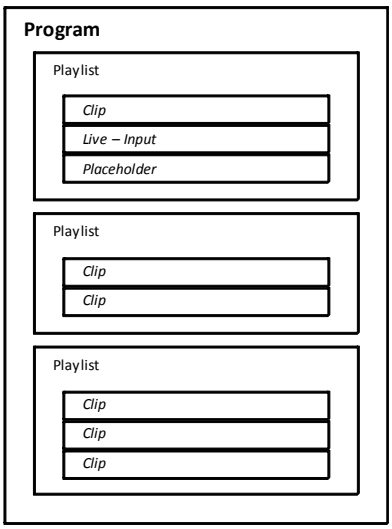
GENESIX ONAIR is a flexible and reliable 24/7 playout automation solution for SD and/or HD. Functions, such as inserting overlay graphics, GPI and TCP support, and saving playlists in a XML format, ensure easy handling and integration into existing infrastructures and processes.

The program-based structure offers an efficient and clear user interface for scheduling and time controlled broadcasts.


Menu bar
Main controls (active)
When ONAIR is not active the main controls appear like in the player module.
Playlist
Clips
Overview zoom: Set the zoom level of the overview area from 1 to 24 hours.
1-24h overview: Displays an overview of programs based on time.

6.2 Understanding programs

OnAir plays the videoclips using a timetable. The following graphics displays the architecture of a program:



A program contains a timetable including playlists and clips for max. 24 hours. Each program contains one or more playlists. Each playlist contains one or more clips, placeholders for live-inputs or placeholders for video files.

6.3 Create/Open/Edit/Save a program

a. Open the ONAIR module or ñProgramsò folder in LIBRARY module.

b. Click on the ñNew programò button and enter the name and video-standard for the new program or click on the „Load programò button in order to open an existing program.

c. Drag & Drop clips from LIBRARY into the program-window. With the first clip a new playlist is being created automatically. You can add further Playlist by clicking on the ñNew playlistò button or by holding the [SHIFT]-Key during Drag & Drop.

d. You can also add an applicable playlist by drag & drop the playlist file into the program.

e. Add a placeholder for a clip by clicking on the ñAdd placeholderò button. For replacing this placeholder by a clip just drag & drop a clip over the placeholder.

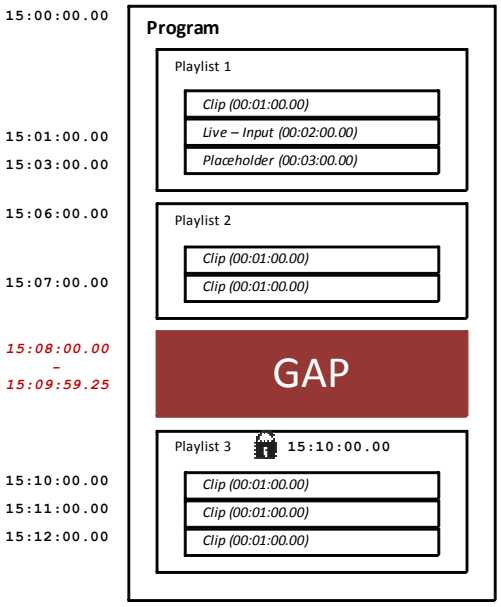
f. Add a Live-Item by clicking on the ñAdd live-itemò button. It is necessary configure the live-input-channel in the OnAir module before using as shown in 5.4.1.

g. The program is saved instantly after each change.

6.3.1.1 Lock playlist to a specific point in time

By entering a start time manually in the ñTimeò column of a playlist itôs point in time is locked automatically (lock symbol is activated). This means that this playlist will start on the entered time regardless of gaps. The lock can be reversed by right click on the locker symbol and then choose ñNoneò

The following illustration should help you understanding the automated clip-on-clip timing interrupted by a gap before a locked playlist.



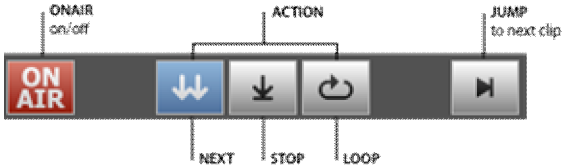
Note: It is not possible to add content to the previous playlist (of the locked playlist) if these content will overrun the locked point of time! In the example above the you can fill the gap with a clip <= 00:01:59.25 duration.

6.4 Main controls

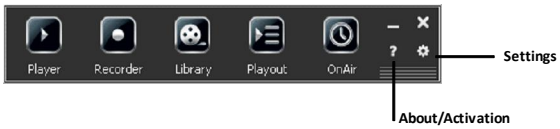
When OnAir is not active it offers playerôs main controls and full flexibility of the player module.

Like in Player you can use the Load/Eject Button to load a clip or drag & drop it from below Playlist or Library into the preview-window.

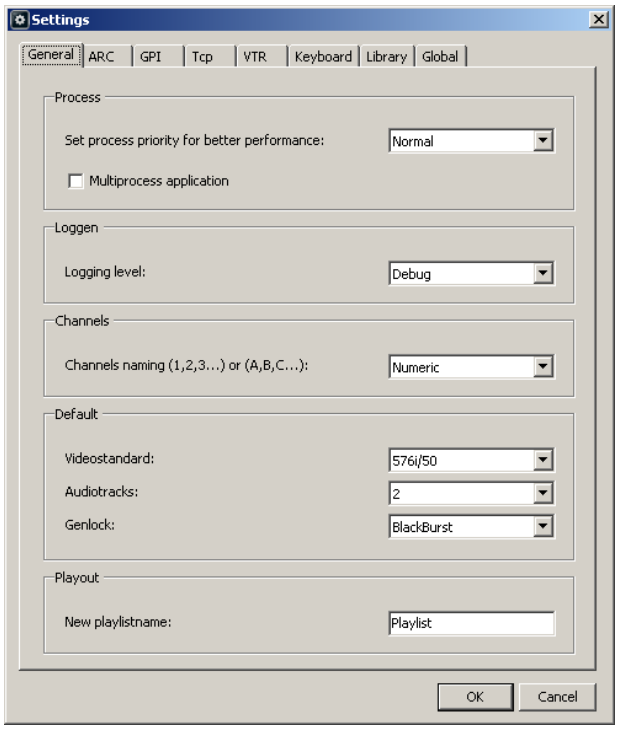
When OnAir is active the main controls turn into playout automation actions.



7 SETTINGS



7.1 General



Process Priortiy

Multiprocess application
Run GENESIX Modules as individual processes.

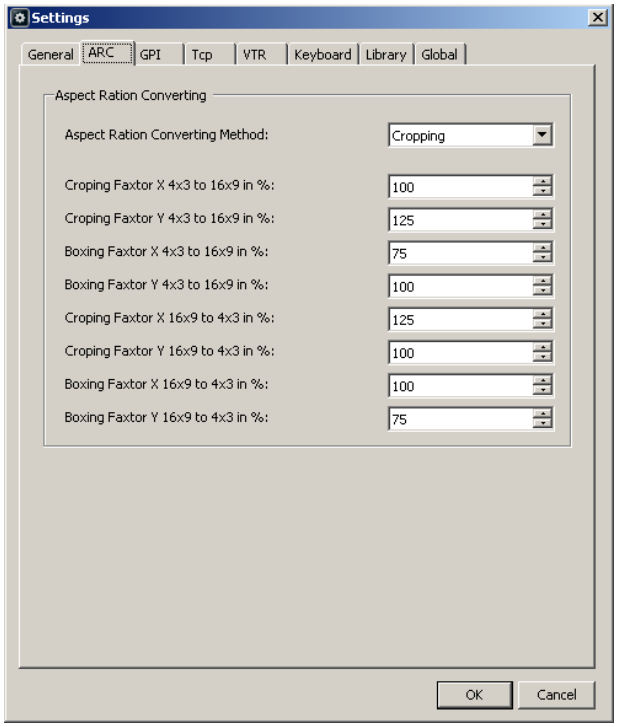
Logging Level
Set the logging level

Channel naming
Select the naming of the in- and output channels between numeric (1234) and alphanumeric (ABCD)

Default
Default initialising of the output channels.

Playout Playlistname
Set the default name for new playlists.

7.2 Aspect Ratio Conversion



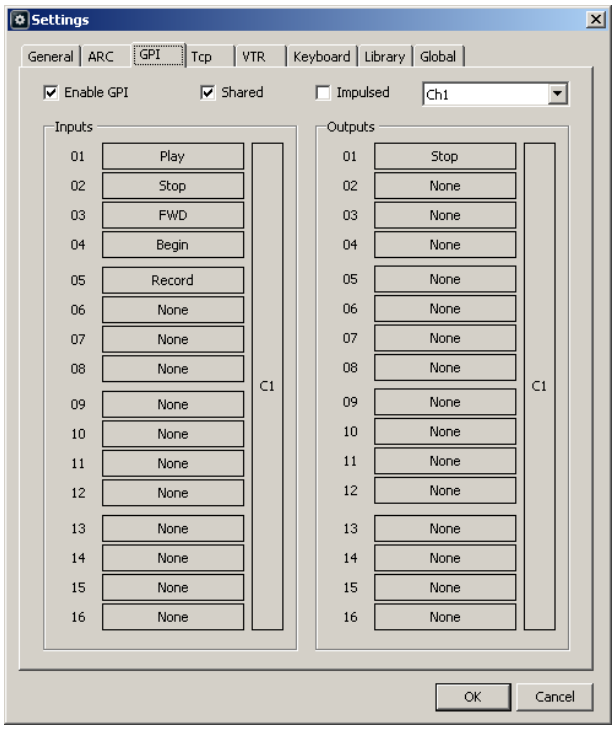
Converting Method:

Cropping
The output will be zoomed and cut.

Boxing
The output will have black bars.

7.3 GPI

NOTE: Optional GPI board is required.



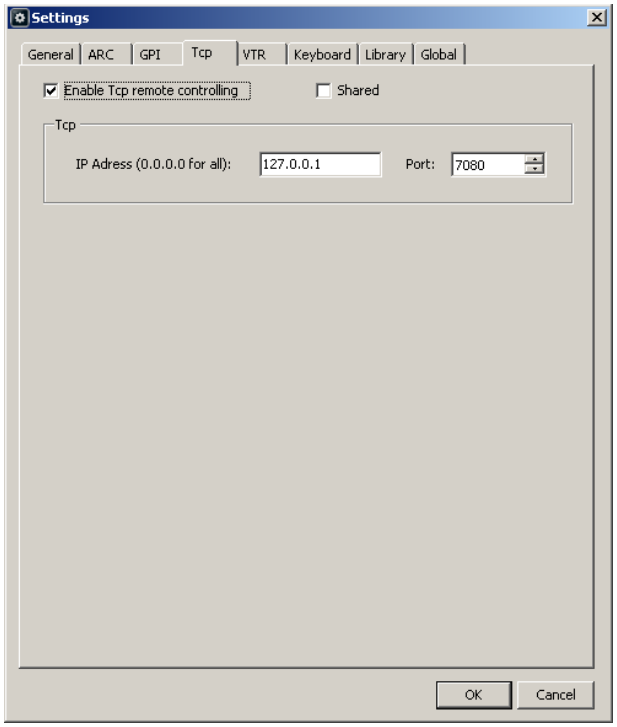
Enable GPI
Activate the checkbox to enable GPI.

Shared
Activate to share GPI control between different instances of the GENESIX modules.

Impulsed
Sends 100ms impulse instead of permanent contact

Channel
Choose 1, 2 or 4 Channels for use. You can set up each channel individually.

7.4 TCP



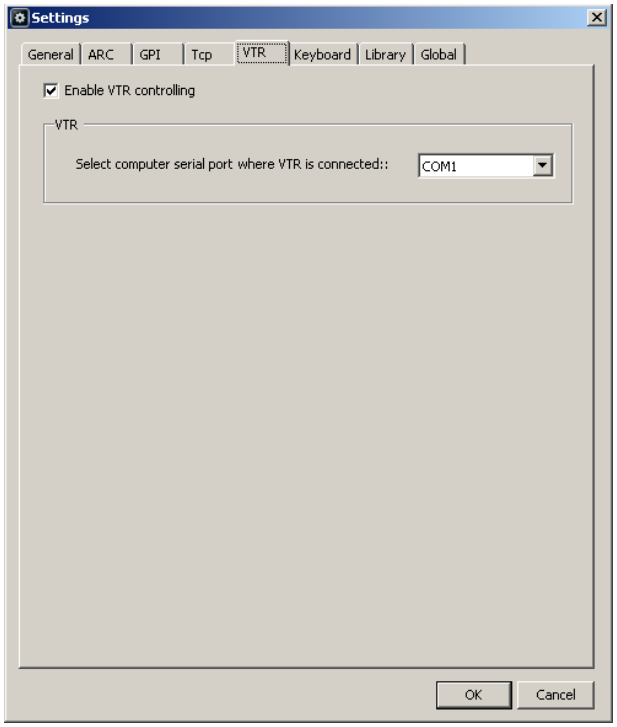
Enable the checkbox and enter the IP address and port of the network adapter which is designated for incoming TCP commands.

Use 0.0.0.0 to allow commands through all network adapters.

Shared

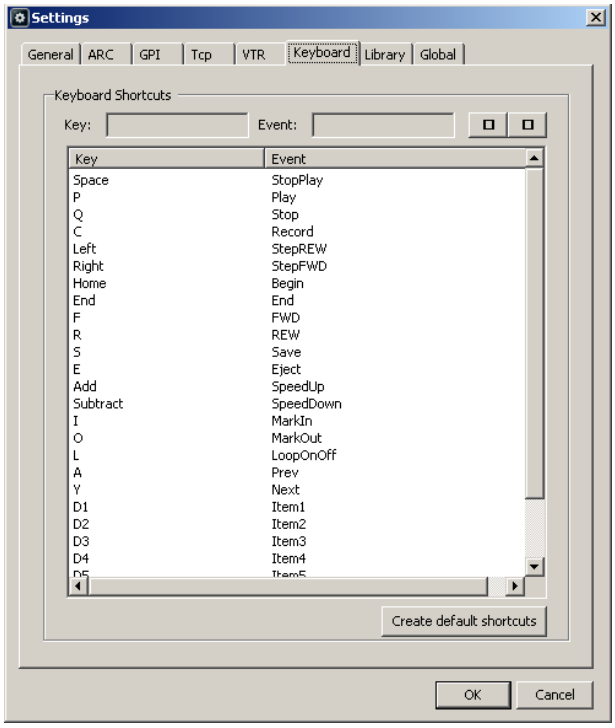
Use the ñSharedò option to execute the command on designated modules simultaneously.

7.5 VTR



Enable the checkbox and choose the serial port where VTR is connected to use VTR controls in Recorder module.

7.6 Keyboard Shortcuts

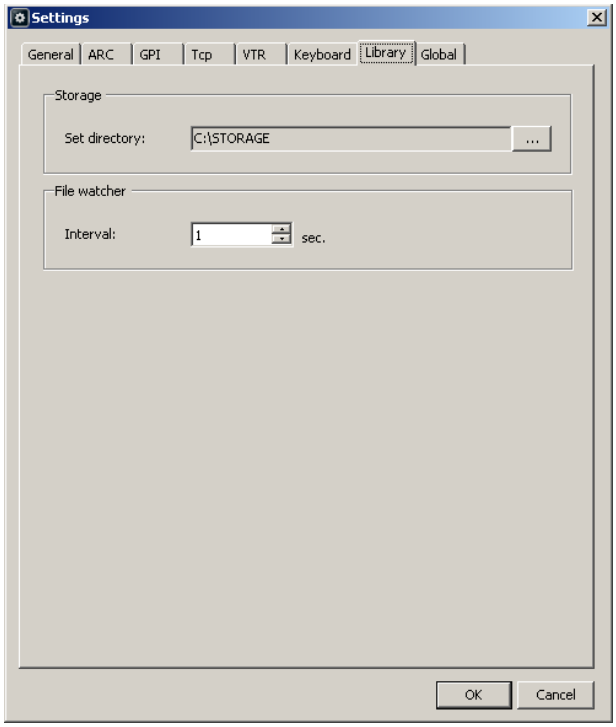


You can setup your keyboard shortcuts individually in keyboard tab in the settings menu.

Click on ñCreate default shortcutsò to create or reset to default shortcuts.

Function	Shortcut	Function	Shortcut
Stop/Play	Space	Save	S
Play	P	Eject	E
Stop	Q	SpeedUp	+
Record	C	SpeedDown	-
StepREW	Left	MarkIn	I
StepFWD	Right	MarkOut	O
Begin	Home	Loop on/off	L
End	End	Prev	A
FWD	F	Next	Y
REW	R		

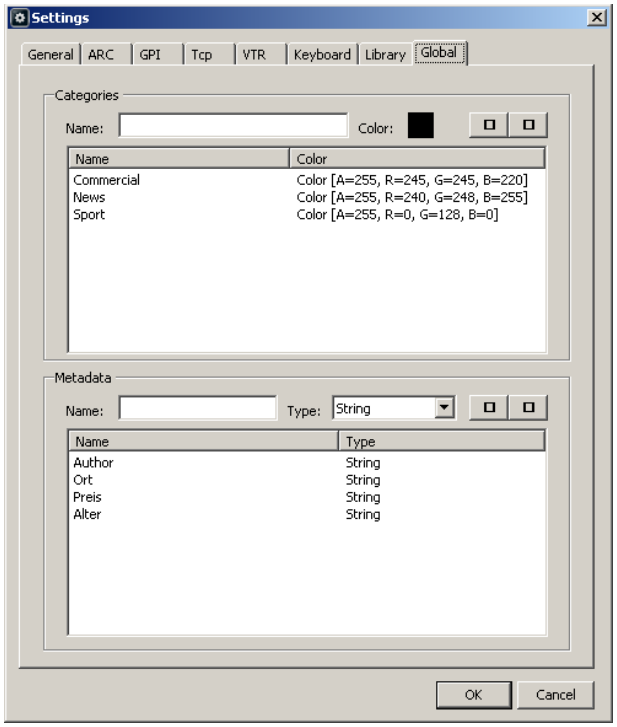
7.7 Library



Set the drive and directory for your video library.

The file watcher interval represents the refreshing interval.

7.8 Global



Categories
Set category name and color code.

Create custom metadata fields

Name
Fieldname

Type
String